

Fig 1

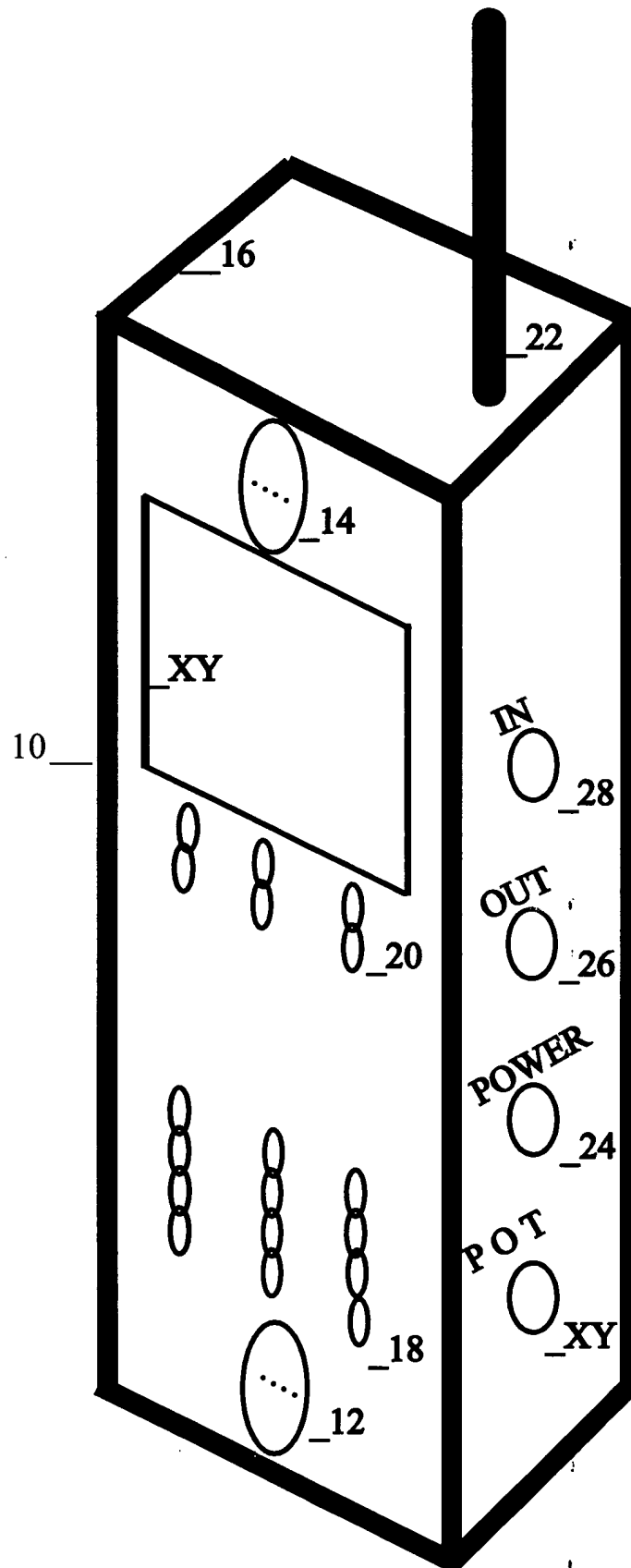


Fig 2

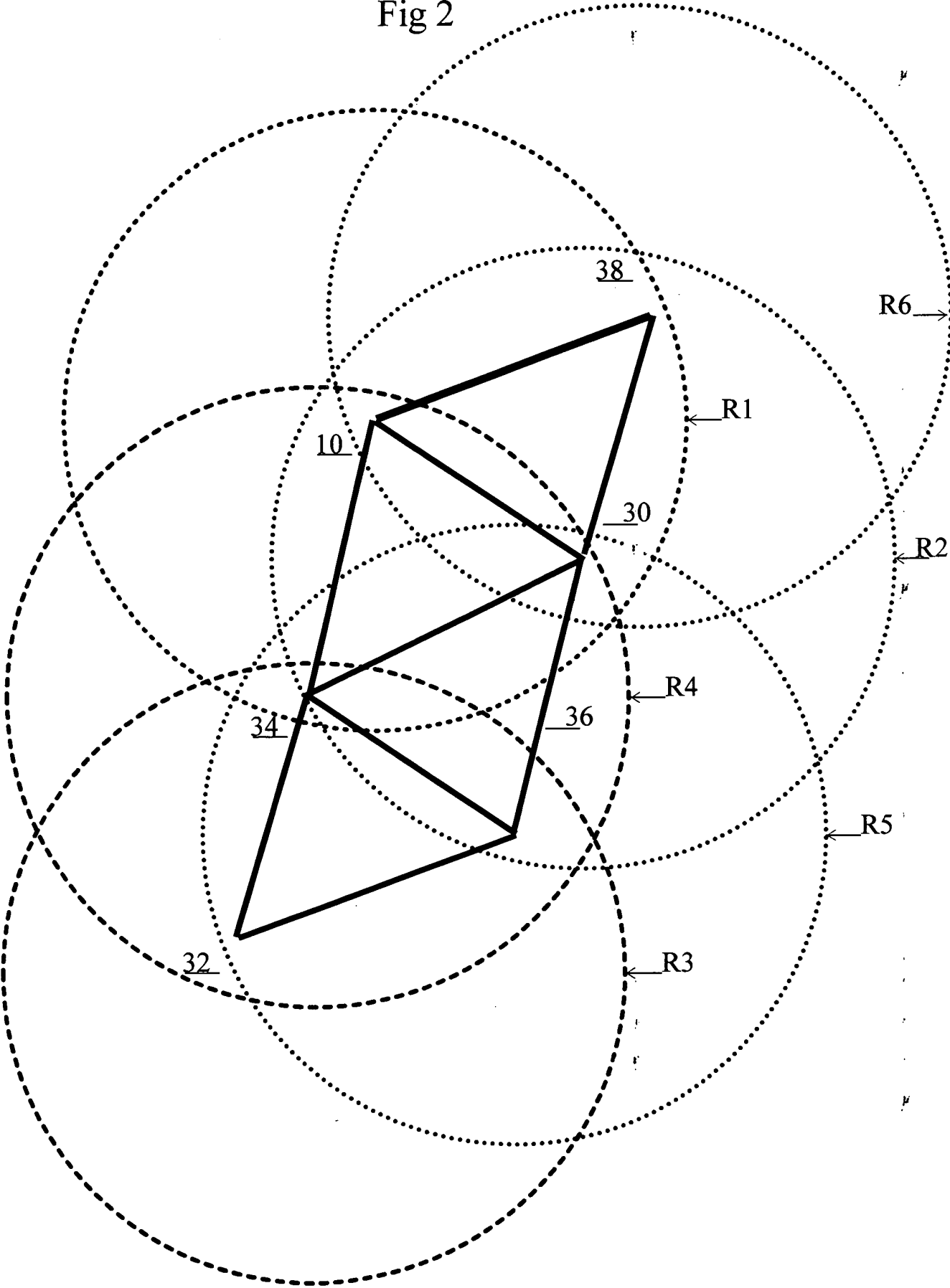


FIG. 2 is a schematic diagram of a system for determining the location of a mobile station (MS) relative to a base station (BS) using a set of reference points (R1-R6) and a set of circles (C1-C6) centered at the reference points. The MS is shown at a location (10) relative to the BS (30). The circles are defined by the distances from the MS to the reference points (32-38). The intersection of the circles defines the possible locations of the MS.

Fig 3

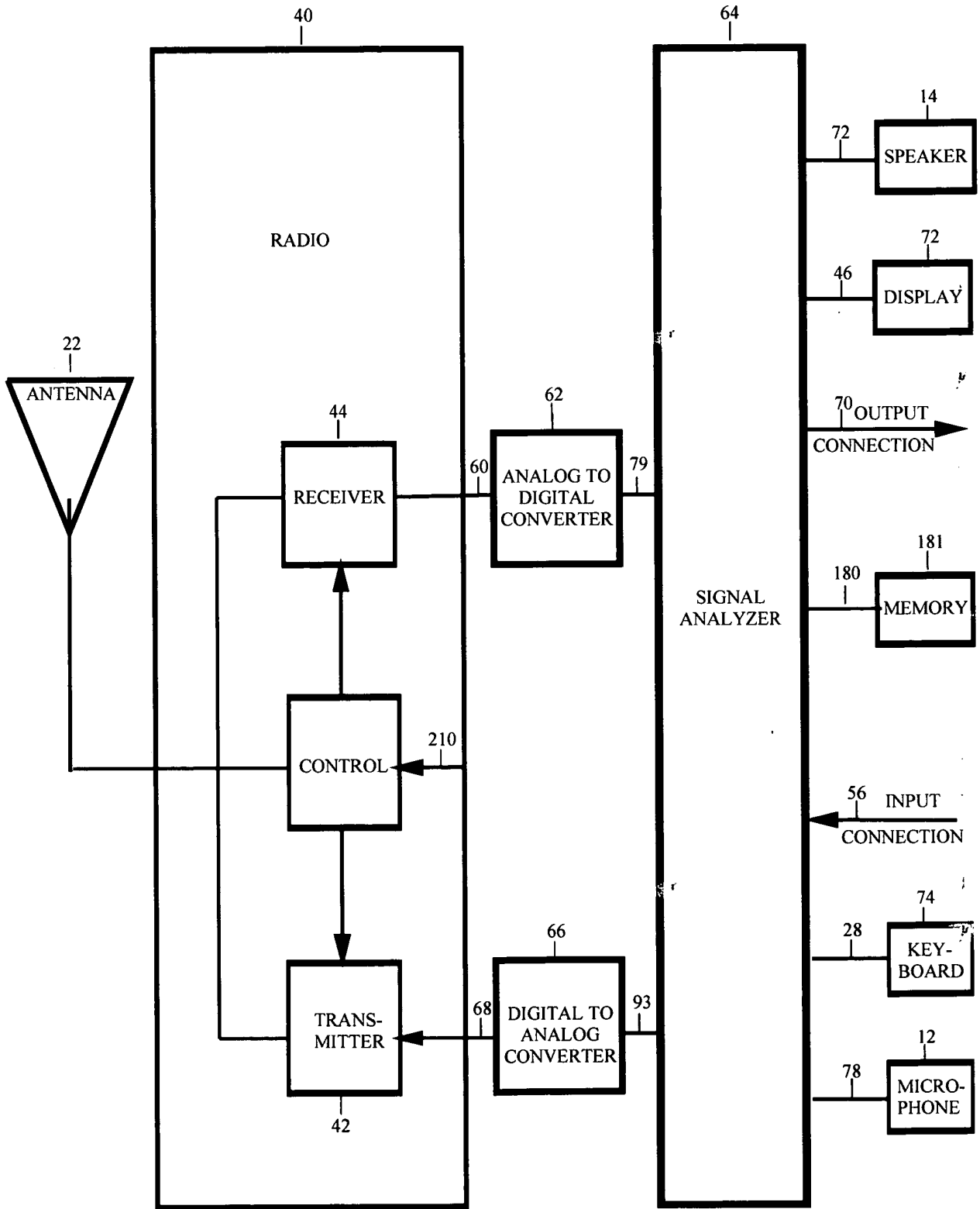
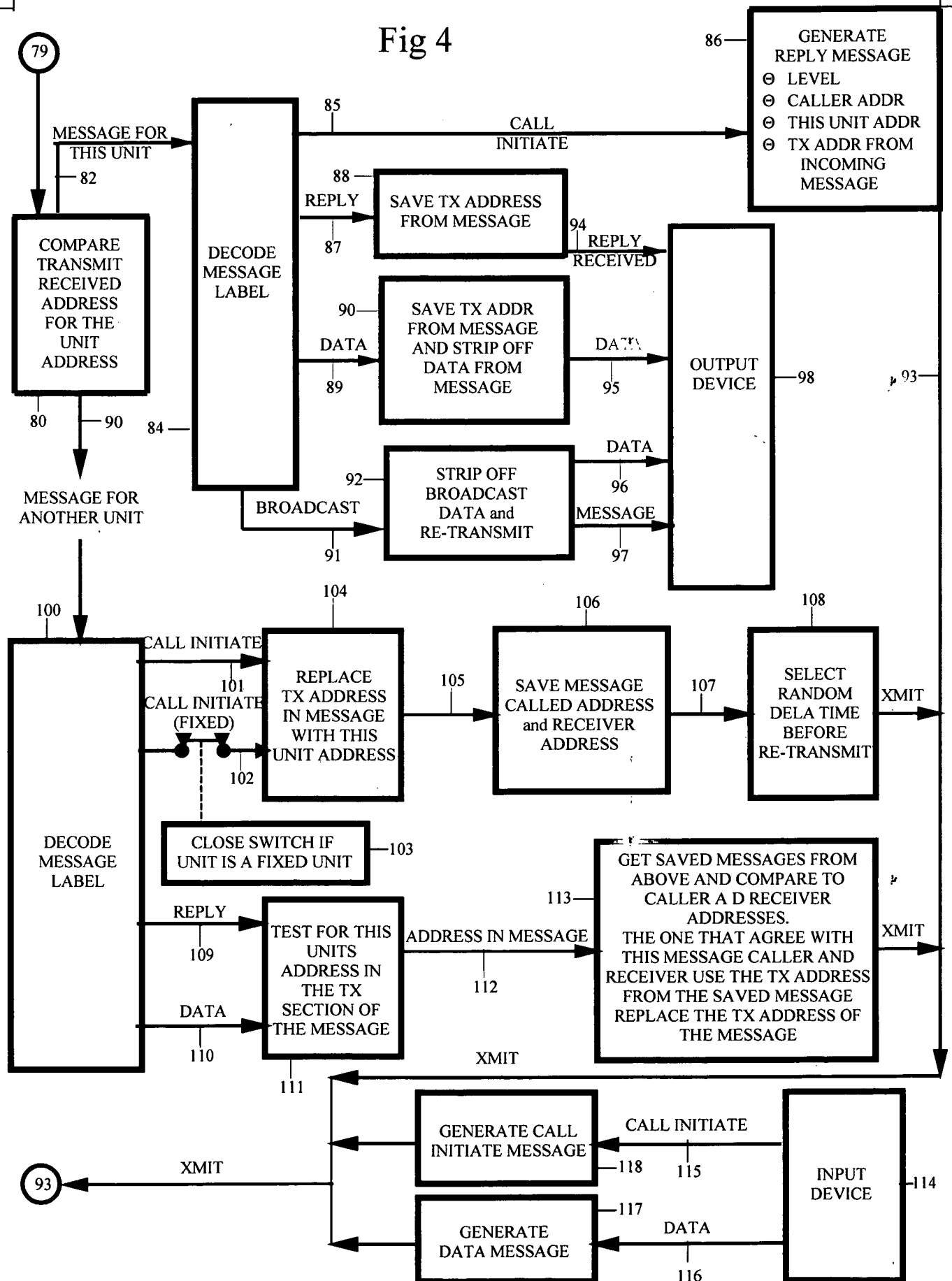


Fig 4



## Fig 5 MESSAGE FORMATS

### A. CALL INITIATE (FIXED UNIT ONLY RESPOND)

FIXED UNIT LABEL	ADDRESS OF CALLED	ADDRESS OF CALLED UNIT	ADDRESS OF TRANSMITTER UNIT	FEC
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### B. CALL INITIATE (ALL UNITS RESPOND)

ALL UNITS LABEL	ADDRESS OF CALLED	ADDRESS OF CALLED UNIT	ADDRESS OF TRANSMITTER UNIT	FEC
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### C. RE-TRANSMIT MESSAGE

(SAME) (LABEL)	ADDRESS OF CALLER	ADDRESS OF CALLED UNIT	ADDRESS OF TRANSMITTER UNIT	• • • •	FEC
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### D. DATA MESSAGE

DATA CABLE	ADDRESS OF CALLER	ADDRESS OF CALLED UNIT	ADDRESS OF TRANSMITTER UNIT	DATA • • • •	FEC
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### E. BROADCAST MESSAGE

BROADCAST LABEL	ADDRESS OF CALLER	ALL UNITS CODE	DATA • • • •	FEC
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### F. ALTERNATE PATH SEARCH

ALT PATH LABEL	ADDRESS OF CALLER	ALL UNITS CODE	ADDRESS OF TRANSMITTER UNIT	FEC
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### G. REPLY MESSAGE

REPLY LABEL	ADDRESS OF CALLER	ADDRESS OF CALLED UNITS	ADDRESS OF TRANSMITTER UNIT	FEC
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